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Overview
This report is for Waste Services activities for March 2013. Significant items in this period include:

- The waste received at Hogan’s Pocket landfill has decreased, but still at record highs.
- Escalated bin request issues falling back to acceptable limits.
- Processed green waste tonnes continuing to be much lower than forecasted.
- The "Don't Dump On Charity" campaign appearing to have a positive impact on disposal quantities.
- Sarina transfer station community engagement has commenced.
- Sarina transfer station construction contract award process commencing.
- Review of waste software processing by Mandalay, to utilise the software full potential.

Director Water and Waste Services
1.1 Transactions

The following graphs identify the number of transactions for each site for the month.

Item to note is the high average transaction numbers for the Bucasia Greenwaste Facility for March 2013. These numbers are reflecting the change in weather and the increase in the numbers of residents disposing of green waste. Processed tonnes at 3.7 will not reflect this as the tonnes received in March will not be processed till later in the year.

Hogan’s Pocket Landfill and Paget Transfer Station – Monthly Transaction Numbers over 13 Months

Hogan’s Pocket Landfill and Paget Transfer Station - Average Daily Transactions for 2012/2013 Financial Year
Regional Sites – Monthly Transactions Numbers for March 2013

Regional Sites – Monthly Transaction Numbers Over 13 Months
Regional Sites – Average Daily Transactions for the previous 13 months

1.2 Community Service Obligations – In-kind bins

The following tables outline the provision of bins for events for March 2013 and the year to date in-kind support for 2012/2013 financial year. This information is to inform Council the services that have been provided for community events.

<table>
<thead>
<tr>
<th>Event</th>
<th>General</th>
<th>Recycle</th>
<th>Skip bins</th>
<th>Pods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mackay Kennel Club</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MECC - Kiss Concert</td>
<td>140</td>
<td>90</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Artspace</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mackay Netball</td>
<td>15</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>City Centre Easter Carnival</td>
<td>8</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year to Date In-Kind Support (2013) - Bins</th>
<th>General</th>
<th>Recycle</th>
<th>Skip bins</th>
<th>Pods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jul-12</td>
<td>141</td>
<td>29</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Aug-12</td>
<td>34</td>
<td>14</td>
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<td>0</td>
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<tr>
<td>Sep-12</td>
<td>119</td>
<td>17</td>
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<tr>
<td>Oct-12</td>
<td>72</td>
<td>35</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Nov-12</td>
<td>40</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Dec-12</td>
<td>34</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Jan-13</td>
<td>16</td>
<td>6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Feb-13</td>
<td>21</td>
<td>11</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mar-13</td>
<td>175</td>
<td>90</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
1.3 Community Service

Obligations – Not for profit organisation fee waivers

It appears anecdotally that the "Don't dump on charity" campaign is having a desirable effect. The amount of waste being disposed by "Not for profit" organisations appear to be slowing. Analysis on the month by month disposals will be presented in the April 2013 report, to provide Council a clearer picture of the influence of this program.

Not for Profit Organisations – Total Waste Disposals as at March 2013

[Diagram showing total waste disposals in March 2013]

Not for Profit Organisations – Detailed Waste Disposals as at March 2013

[Diagram showing detailed waste disposals for various organisations]
Customer Service

2.1 Request Types

The following chart shows customer request types actioned by Waste Services staff for the month of March 2013.

The number of escalated requests have reduced, due to considerable efforts in resolving the waste bin issues. There were some legacy issues being resolved in March, however the majority were corrected.

Number of Staff Requests by Type for March 2013
The number of bin requests actioned by bin contractors for March 2013

These charts relate to services actioned by collection contractors.

Breakdown of Wheelie Bin Requests – Contractors March 2013

The following chart is a breakdown of the wheelie bin request category. Requests for new combined services have been consistently high. The number of requests for replacing stolen bins is of a concern. Waste Services is in process of reviewing a new process on the management of requests for stolen bins. The process for providing new bins is also being reviewed, as occurrences are being reported of new bins being provided to new homes and then being stolen by others. Waste Services will also undertake community awareness of the issue.
Contractor Service Delivery performance

The following pie charts identify the number of requests received within the month by contractors that action exceeds 10 calendar days.

Council's management met with Veolia Environmental Services Mackay Manager to discuss the previously reported failure to have sufficient number of bins in stock to meet customer demand for new bin services and replacements. Deliveries have recovered from this problem with some occurrences of late delivery being significantly reduced.

It was acknowledged that the primary cause was due to the inability to obtain bins form the supplier due to the impacts of the floods on road and rail links. In addition to this, demand for bins was higher than Veolia Environmental Services had anticipated for this period.

Veolia Environmental Services have reviewed their bin stock management processes and contingency planning to ensure that this does not occur again.

March 2013

J J Richards and Sons
2.2 Education

2.2.1 School / Community Education Program

- Two waste minimisation sessions given at CQTAFE to Multicultural students studying English. Total attendees 20 adult students and 2 teachers.
- Eight waste minimisation sessions given at St Anne’s Catholic Primary School. In attendance a total of 261 students from Prep-Yr 7 and 12 teachers.
- One recycling education session given at Glenella Childcare and Education Centre. In attendance 25 students and 3 teachers.
- Two recycling education sessions given at Mackay Kindergarten and Preschool. In attendance 44 students and 4 teachers.

2.2.2 Clean Up Australia Day 2013

- Monitored Clean Up Australia Day website for Clean Up Australia Day registrations on 3 March 2013 in the Mackay region.
- Emailed free disposal advices to supervisors of five sites registered in the Mackay region who requested assistance with waste removal.
- Visited registered Clean Up Australia Day sites in the Mackay region on 3 March to monitor waste collection and encouraged future participation in the GNCU day events in September.

Clean Up Australia Day (CUAD) 2013 Report

The Mackay Regional Council provided free disposal advices to supervisors of Clean Up Australia Day sites. One tonne of Clean Up Australia Day waste was disposed of from sites. All site supervisors thanked Mackay Regional Council for the help provided with waste disposal.
The following report was submitted by the Armstrong Beach Clean Up Australia Day team:

"Armstrong Beach really laid on adverse weather conditions as a group of residents including members of the local SES and Rural Fire Brigade participated in the Clean Up Australia Day event.

A significant amount of litter was collected and Brian Corr, site co-ordinator expressed the group’s disappointment at the overall increase of roadside litter, particularly towards the Freshwater Point boat ramp and the sheer volume of drink cans, plastic water bottles and general rubbish discarded on the main beach.

While regular beach walkers are seen to be picking up and taking home discarded items throughout the year, we would appeal to others to observe the basic rule of if you bring it in, then please take it out with you.

As the community develops, we would encourage all residents to enter the spirit and become involved in the September Great Northern Cleanup and continue to enjoy a pristine coastal environment."

2.3 Mandalay Visit to Mackay

Mandalay Technologies, who are Council's waste management software supplier, sent their Business Analyst for a week to review the entire workflow processes for Waste Services in the management of waste data. Also their Managing Director also came to Mackay to engage key stakeholders for this process review.

During the Mandalay met with the Waste Services team to discuss operational best practice and to review the current data capture and reporting requirements. Mandalay has identified Mackay as a leader in best practice waste management in Australia and requested permission to visit Mackay furthering the partnership model which has been building over the past 7 years. By engaging stakeholders at many of the sites Mandalay was better placed to understand the unique requirements of Waste Services operations and to ensure that the software meets best practice operational requirements.

Following from this review, Waste Services and Mandalay will be working closely together to drive improvements in the operational management of our sites including hardware provision and utilising the software to its full potential.

Mandalay will be providing a report to Waste Services in the near future on their findings. It is expected key issues such as improvement to software configuration and hardware accessibility will be addressed to enable a much improved customer experience at Council sites. Also it is expected that the reporting functions will be streamlined to enable information to be more accessible for improve analysis of the performance of the business.

It should be noted that this review has been provided at no cost to Council. Mandalay would like to develop a model of their software application that they can replicate for other customers.
Asset Management

3.1 Hogan’s Pocket Landfill Waste Disposal Tonnages

Analysis of the data shows that for March there has been a decrease in tonnes received, in comparison to February. However disposal activity is still buoyant.

3.2 Kerbside Waste Collection Tonnages

The following graph identifies the tonnes of waste that is collected per month from household collection services.
3.3 Kerbside Recycling Tonnages

The following graph identifies the tonnages of recyclable products sent to recyclers from household kerbside collection services.

![Graph of Recyclables produced per month]

3.4 Landfill Gas

Work on commissioning has been continuing. Unfortunately the regulatory aspects to this project, is complex and is still being worked through. This has placed a delay on commissioning of the flare. It is expected commissioning will commence in May 2013.

The February report references the causes of the delay, primarily caused by the late application of the gas safety legislation on this facility.

3.5 Greenwaste Management

The following graph illustrates tonnage rates for greenwaste processed for the month, the cumulative tonnes of greenwaste processed for the year to date and the tonnes of greenwaste projected to be processed linearly.
The long term outlook of tonnes of greenwaste processed by Council is lower than estimated for this financial year. Waste Services will continue to analyse the data from this aspect of the business, to see if correlations can be made with climatic conditions and/or a change in customer behaviour.

3.6 Projects

Waste Services undertakes a range of projects across the business. Projects take the form of capital projects, planning, research and investigations.

3.6.1 Mobile Computing

The provision of mobile computing platforms for field officers is now being led by Information Services as a project. Staged roll out has Waste Services being involved from June to October 2014.

3.6.2 Sarina Rehabilitation

The re-design of the rehabilitation with intention to utilise the phytocapping method is still in progress. The designer is working through the financial modelling for comparison of costs on construction and ongoing maintenance of both conventional capping and phytocapping.
Marine permit applications, which are required due to the proximity to Plane Creek and Mangroves, are approved. The Tidal Works application is in progress.

3.6.3 Sarina Transfer Station Construction

The Sarina transfer station construction tender has been awarded to Shamrock Civil. A pre-start meeting is being held mid April 2013, with works to commence shortly thereafter.

Community Engagement Plan is in progress. This incorporates both the construction of the transfer station and the remediation of the landfill. Activities conducted so far include:

- Signage with 3D image of the concept is about to be installed at the entry to the site.
- Brochures developed and mail out conducted for 18 March 2013.
- Facts Sheet developed and available
- Further media release in Council Connect
- Community groups identified for engagement.

3.6.4 Resource Recovery Operations Tender

Evaluation for the Resource Recovery Tender continues with the aim of submitting to Council a final report for consideration in April 2013.

3.6.5 Bayersville Remediation

Defects and repairs for Bayersville were put on hold during March due to unfavourable weather conditions. Vassallo and the contract superintendent inspected the site during March and documented the scope of works for rectification during April 2013.

3.6.6 Hogan's Pocket Cell 1 Capping

Waste Services received the draft design documents for the proposed capping of Cell 1 in early March 2013. The initial review of the documents raised some concerns with the proposed treatment methods as well as concerns with material thicknesses of the cap.

In an endeavour to ensure the design provided value for money Waste Services conducted a review of the design with the key construction stakeholders and the design team.

The outcome of these discussions gave us a clearer understanding of the rigour the design was put through to meet the regulators requirements. Unfortunately the material thickness must remain to meet compliance.
The project is anticipated to be ready for tender advertising during April and construction to be undertaken during the 2013 'dry season'.

**Regulatory/Compliance**

4.1 **Surface Water Discharge Management**

Waste Services is required to ensure that stormwater is effectively managed at Hogan’s Pocket landfill. The aim is to limit stormwater entering the facility and to reduce the amount of sediment released into receiving environments by landfill operations.

Occasionally control and uncontrolled surface water releases will occur at the Hogan’s Pocket Landfill. Surface water is a key risk that is managed through approved management plans. It must be stressed that this is not leachate, but surface water that contains sediments. Council must abide by its environmental licence conditions and the strict parameter limits set by the regulator. It is planned that all sediment dam releases will be reported as a KPI on environmental management for the Hogan’s Pocket Landfill.

In March 2013, uncontrolled releases of water occurred at Hogan’s Pocket landfill due to the high rainfall events. The regulator has been informed with the appropriate incident report, as required by the legislation. A review is being undertaken on the operational management plans to help improve the general water management at the site.
# Water and Waste Services Monthly Review > March 2013

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OVERVIEW

SafePlan Monthly Action Plans (MAPS) compliance for the Directorate for March was 81%. This falls just short of our monthly target of 85%. The absence of key water treatment plant personnel has meant that a number of MAPs actions were unable to be completed thus resulting in non compliant performance result in this area. This will be addressed in the next monthly MAPs.

No Lost Time Injuries occurred during March 2013 however four incidents were recorded for the month. These incidents included an incident involving a snake in a Contractor's work site, chemical spray in the eye and a manual handling incident.

The target number of Toolbox Talks (10) was achieved during March and Supervisors continue to focus heavily on Workplace Health & Safety during the Toolbox Talks held. The Director undertook to attend the majority of Toolbox Talks for the month.

The number of Outstanding Performance Appraisals continues to be closely monitored with the number outstanding at the end of March standing at 9. This figure is below our target of 10 and this is expected to drop further in the next month. E-Performance continues to rollout across the Directorate with all applicable staff now having either completed their training or being booked into training sessions within the next month.

There has been some success in recruiting for long-term vacancies and the total number of vacancies across the Directorate has been reduced by 2 this month to 18 with Managers continuing to fill as many of these vacancies as possible as a matter of priority. Staff turnover for the Directorate for the month was 1 which is also below the targeted figure of 2.

Unscheduled overtime and Call Outs increased substantially during the month of March due to the continued rainfall and subsequent rainfall related incidents.

Year to date revenue and expenditure for both Water and Wastewater continue to remain on track. Due to the prolonged wet weather conditions, Capital expenditure remains below budget forecasts with YTD Actuals and committals above forecasts.

Customer Service Requests increased significantly during March with 567 requests being received. This is an increase of 30% for the month. Staff have done particularly well to successfully complete and close out 96.12% of total requests received (540 requests) during the month. Again this month, Sewerage Blockages/Spills and Sewer Miscellaneous requests accounted for a substantial percentage of the total requests received during the month; approximately 11% or 53 and 8 requests respectively.

The total number of Plumbing Applications received during March (155) remained high but numbers were down slightly on those received during February likely due to what appears to be a small deceleration in the building industry. Smart EDA Applications received during the month also dropped from 45% to 40%.
The Independent Auditor has now completed his recommendations for the Plumbing Application processes and Council will be briefed on these recommendations during April 2013.

Water consumption increased during March but high rainfall received across the region again during the month ensures the security of our region's continued water supplies. Approximately 42% of our annual water allocation at Dumbleton Weir still remains unused.

The Director, Portfolio Councillor and staff attended workshops in relation to Department of Water & Energy Supply 30Yr Strategy for the Water Industry. Responses are being drafted to respond by the end of April 2013 deadline.

Work on the 2013/2014 budget continues including focus on the Long Term Financial Forecast, Operational Plan and Operational Budget.

Planning is currently underway for the next meeting of the Water & Sewerage Capital Advisory Committee to be held during May 2013.

Director Water and Waste Services
SAFETY

1.1. Incident Statistics

The incident statistic summary details a summary of the Water Services safety incident performance. Water Services aspires to achieve zero harm with a stretch target of zero injuries. Water Services has a target of 6 LTI for 2012 / 2013. This is based on a 30% improvement in the number of LTI’s from the previous year.

There were no LTI’s for March. 4 x non-injury incidents including 1 x incident involving a Contractor.

1.2. Preventative Actions

To achieve improved safety performance a range of improvement initiatives are undertaken on a monthly basis. The following figure tracks the improvement process through implementation of the SafePlan Monthly Action Plans (MAPs) and the hazard inspections.

MAP compliance fell in March with 81% achieved. MAP close-out was monitored closely in March. Two Hazard Inspections undertaken from 7 required.
2.1. Team Engagement
Water Services believes that a high performing culture is an essential part of a successful business. The following chart tracks the initiatives to achieve an engaged, aligned and performing workplace culture through regular team meetings.

![Chart showing number of Toolbox Talks]

Number of Toolbox Talks for March remained steady.

2.2. Performance Appraisals
The following chart tracks the initiatives to achieve an engaged, aligned and performing workplace by conducting regular performance appraisals.

![Chart showing performance appraisals]

Outstanding Performance Appraisals were reduced again in March as the issue has been addressed by the Management Team as a matter of priority.
2.3. Turn Over

The following staff turnover statistics are presented as an indicator of staff stability in the business. The business aims to keep the annual turnover under 10%.

![Graph showing staff turnover statistics]

2.4. Operational Hours

The following chart details the productive hours worked during both normal and overtime. The graph excludes staff time on leave, training and down time due to wet weather.

![Chart showing operational hours]

Legend:
- Blue: Total Worked (hrs)
- Red: Overtime Performed (hrs)
3.1. Water Expenditure

The following trend provides a high level overview of the water expenditure to monitor forecast expenditure against actual expenditure. The forecast expenditure profile has been derived from previous year’s cash flows. Note that the below graph does not include finance and depreciation costs.

3.2. Wastewater Expenditure

The following trend provides a high level overview of the wastewater expenditure to monitor forecast expenditure against actual expenditure. The forecast expenditure profile has been derived from previous year’s cash flows. Note that the below graph does not include finance and depreciation costs.
3.3. Operating Costs

The figure below details the average operating costs to treat water and wastewater in Mackay Regional Council. Due to the high fixed costs associated with the treatment the $/ML is significantly influenced by the prevailing weather.

![Graph showing water operating costs]

3.4. Capital Expenditure Performance

The following trend provides a high level overview of the capital expenditure to monitor forecast expenditure against actual expenditure. The forecast expenditure profile is based on the project delivery schedule within Water Services.

![Graph showing capital expenditure]

Capital Expenditure remains below budget forecasts with YTD Actuals and commitals above forecasts.
3.5. Water Revenue

Water revenue is received periodically through a combination of the access charge and consumption charge.

3.6. Wastewater Revenue

Wastewater revenue is collected biannually.
4.1. Customer Requests

This graph details the customer requests received and recorded via pathways that relate to the Water Business. The target is to have 90% of all customer requests closed at any one point in time.

NB November 2012 figures estimated and entered retrospectively. Originally unavailable due to system error caused by failed upgrade of Pathways.

4.2. Request Types

The following chart displays a summary of the customer request types received for the month.

Higher than average sewerage requests due to rainfall this month. All other requests are consistent with previous months.
4.3. Plumbing Applications

In accordance with the *Plumbing and Drainage Act* a plumbing application is required for all new plumbing installations or modifications to existing plumbing. A plumbing application must be lodged to Local Government. Water Services has a regulatory time frame of 20 business days to assess a plumbing application. An internal target of 5 business days has been set for all residential plumbing applications.

An indication of the amount of building activity in each population centre of the Mackay region can be derived by assessing the building activity by location. This is summarised in the table below.
4.4. Smart EDA Plumbing Applications

In May 2011 Water Services launched the ability for Plumbing Applications to be submitted electronically through the State Government Smart EDA service. Water Services is targeting 20% of all applications to be lodged electronically by the end of the 2012 / 2013 financial year.

4.5. Plumbing Inspections

Plumbing inspections are undertaken throughout a building construction or renovation process. Typically 4 plumbing inspections are undertaken for each plumbing application. In accordance with the Plumbing and Drainage Act plumbing inspections must be carried out within 48 hours of a plumbing inspection being booked. If Water Services cannot attend the plumbing inspections within the regulated 48 hour period, a plumber can submit a form 3 booking and proceed without an inspection, 1 hour after the 48 hour period.
4.6. Trade Waste Approvals
The program for undertaking trade waste assessment and licensing of all applicable businesses that discharge trade waste is ongoing. As part of the Trade Waste Assessment process a temporary Trade Waste Approval is put in place while the formal approval process is undertaken. The table below summarises the number of Trade Waste Approvals in the Mackay Region.

<table>
<thead>
<tr>
<th>Total Approved Businesses</th>
<th>Temporary Approvals In Place</th>
<th>New Approved Businesses for the Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mackay South</td>
<td>521</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19</td>
</tr>
<tr>
<td>Mackay North</td>
<td>43</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

An acceleration of trade waste rollout is required to meet targets.

4.7. Annual Trade Waste Targets
Annual targets are set for the Trade Waste team with respect to licensing Trade Waste Businesses. The two targets currently in place are to undertake trade waste assessments for all businesses in Sarina, Mirani / Marian and Paget by June 2012 and to achieve 250 new licensed businesses by June 2012.
4.8. **Trade Waste Compliance**

Trade Waste compliance testing is undertaken on a routine basis for all trade waste generators that have pre-treatment devices installed. The compliance testing is aimed at ensuring that Trade Waste discharges will not adversely impact on the treatment plant. A summary of the trade waste compliance tests undertaken in each Wastewater Treatment Plant catchment is detailed below.

<table>
<thead>
<tr>
<th>Catchment</th>
<th>Compliance Tests within Limits</th>
<th>Compliance Test Outside limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mackay South</td>
<td>58</td>
<td>19</td>
</tr>
<tr>
<td>Mackay North</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>Sarina</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

4.9. **Building Over Sewers**

Building Over Sewer applications are lodged where the construction of a structure is proposed within close proximity of a sewer main. The application is assessed in accordance with Councils building over and adjacent to sewer policy. In accordance with the policy, building over sewer applications are assessed within 20 business days. Future reporting will include performance against turnaround time targets.
4.10. Scientific and Analytical Services
Scientific and Analytical Services provides laboratory analysis in accordance with National Association of Testing Authorities (NATA) Standards to both Mackay Regional Council and external customers. A summary of the laboratory activities are detailed below.

4.11. School Visits
As part of the community education program Water Services provides water awareness sessions at schools. A summary of the program is detailed in the graph below including schools visited and students presented to.
5.1. Surface Water Raw Water Storage Capacities

Water Services sources water from a combination of surface water and groundwater sources. With the exception of Middle Creek Dam the storage facilities are owned and operated by SunWater. Middle Creek Dam is under Council’s control. The water stored in each of the storages is detailed below. Due to the higher than average rainfall and lower than average consumption the water storages remained high for 2012 / 2013.

![Volume Stored]

5.2. Annual Water Consumption vs Allocation by Source

Water Services has a water allocation or water license for each water source. The water allocation and year to date water consumption for each of the water sources is detailed below.

![YTD Water Consumed]  ![Allocation]
5.3. Water Consumption by Locality
Water Services supplies water to both residential and commercial water customers throughout the Mackay Region. The average water consumption in each of the three major community centres is detailed below. The water consumption is presented as litres per equivalent population per day. This graph provides a summary of water consumption including commercial water use.

![Water Consumption Graph]

5.4. Inflow and Infiltration Program
The inflow and infiltration program is aimed at reducing the amount of groundwater and stormwater that enters the sewer network. Water enters the sewage system through both private plumbing and Council infrastructure. The program is designed to reduce the occurrence of sewer surcharges during wet weather events. A summary of the program activities is as follows.

![Inspections and Defects Graph]
5.5. **Wastewater - Mackay North and Mackay South Inflows**

The inflow into Wastewater Treatment Plants is impacted by the number of sewage connections and the extent of inflow and infiltration. The monthly inflow into the Mackay North and Mackay South Water Recycling Facilities is detailed below.

![Rainfall and Monthly Inflow Graph](image)

5.6. **Wastewater – Sarina and Mirani/Marian Inflows**

The monthly inflow into the Mackay North and Mackay South Water Recycling Facilities is detailed below.

![Rainfall and Monthly Inflow Graph](image)
5.7. Sewer Inspections - CCTV Camera

To protect and identify defects in the sewer system Water Services routinely undertakes CCTV inspections of the sewer system. CCTV inspections are undertaken for both developers as part of the process to create a new subdivision and on existing sewer assets as part of the routine sewer inspection program. A summary of the CCTV activity is displayed below measured as meters of sewer inspected.

![CCTV Inspection Graph]

5.8. Projects

Water Services undertakes a range of projects across the water business. Projects take the form of Capital Projects, Planning Studies and investigations.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Evans Avenue WMR (Canberra-Quarry)</td>
<td>Construction</td>
<td>15%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Physical works have commenced. The Contractor has completed approximately 55 m of 400 m of Water Main replacement. Extra works are expected due to private property connections. Works are expected to be complete by mid-May, though wet weather is impacting progress.
There have been delays recently due to both wet weather and availability of MRC Crews to work on the numerous cut-ins which need to occur before construction of the building and main pipes can be started.

Wet weather delaying installation of rock anchors and shotcrete slab. Actual ground conditions encountered have resulted in an increased scope of work for rock anchors and area of concrete, impacting project cost.

Project has been bundled with Goldsmith St SPS and Marryatt Street SPS (with works at Marryatt St SPS to commence first), Site has been handed over to the contractor with a start of the first week of April.

All works complete, awaiting final "as con" information from contractor. Variation claims received and accepted for changes to specification to manhole construction and Principal caused delay.
### Water and Waste Services Monthly Review > March 2013

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>SPS - Dump Rd</td>
<td>Construction</td>
<td>65%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Construction underway, completion by June. Pipeline at 70%, pump station upgrade at 20%.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Inflow/Infiltration (Reline)</td>
<td>Planning/Design</td>
<td>30%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source detection works (including smoke testing, property inspections, CCTV and manhole inspections) tender under review. To assist prioritise catchments requiring targeted source detection works, Sewer flow gauges have been installed throughout the network to monitor flows and allow an analysis of wet-weather response.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>AWMR - Archibald/Central Park</td>
<td>Planning/Design</td>
<td>50%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Roads driven renewal project - WM design by Eng Services in progress.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>AWMR - Malcomson/Greenfields</td>
<td>Planning/Design</td>
<td>50%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Roads driven renewal project - WM design by Eng Services delayed, with design drawings expected for review in April-May 2013. Construction scheduled for late 2013.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Retic - Meter Replacement Program</td>
<td>Construction</td>
<td>45%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contractor attending skipped properties in the 1st package of works. There were approximately 200 out of 3000 properties that were skipped due to various reasons like locked gate, ferocious dogs, poor condition of pipework. 55 properties out of 200 skipped were revisited and completed. 600 AMR's have been fitted to the 1st stage package works water meters. Under the second package Contractor to date has completed approx 3100 out of 7000 properties for both water meter installation and Taggle installation. Continuing to liaise to ensure that Business Services and Revenue Department obtain appropriate information while these water meters are replaced. 11 out of 13 Commercial / Industrial Water meters have been issued to Operations for installation.
<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>AWMR - Malcomson St 150mm WM Replacement</td>
<td>Construction</td>
<td>95%</td>
<td></td>
<td></td>
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<tr>
<td></td>
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</tbody>
</table>

New 150 main is now in service. As-constructed drawings still to be provided.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>BWMR - Graffunder Street (Milton to Paradise St)</td>
<td>Planning/Design</td>
<td>15%</td>
<td></td>
<td></td>
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<tr>
<td></td>
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</tr>
</tbody>
</table>

Roads driven renewal project - Scope of NDRRA funded works reduced, WM design by Eng Services consultant AECOM delayed, road construction rescheduled for 13/14. P&S to check revised scope & rebudget for 13/14.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Leak Detection and flow measurement</td>
<td>Design</td>
<td>10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

Data Loggers and Flow Meters have been procured for 9 new locations in North Mackay. Cardano are Designing the Concrete pits. Design of Concrete pits in progress after obtaining information from potholing and dial before you dig. Design to be completed by end April. Physical works expected to commence from mid-May.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>WRS - Rural Water Supply Scheme Assessment (DWQMS)</td>
<td>Planning/Design</td>
<td>90%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Concept design and scope of work to address WQ risk and OH&S issues throughout Council's rural water supply schemes has been identified. Specification and tender documents currently being prepared (due end April), with construction intended in the 2013/14 FY.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Mt Bassett Reservoir - Leaking Roof</td>
<td>Construction</td>
<td>10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Materials procured, however construction has been delayed by rain. Contractor available to commence works once rain ceases.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Reservoir Chlorination System</td>
<td>Construction</td>
<td>85%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

Shoal Point installation is awaiting power for final solar panel fit out, currently being delayed due to the weather. Work at Mt Bassett complete, and unit commissioned, a few minor issues still need completing. City Water Technologies engaged to review existing facility at Seaforth.
## Program Project

<table>
<thead>
<tr>
<th>ID</th>
<th>WRT - Smart Metering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Status</strong></td>
<td><strong>% Complete</strong></td>
</tr>
<tr>
<td>Construction</td>
<td>40%</td>
</tr>
</tbody>
</table>

Contractor has completed installation of 3750 AMR's in conjunction with water meter replacement. Contractor shall be completing installation of a further 6250 AMR's by end of June’13. An additional 7000 AMR's are scheduled for installation in 13/14 financial year commencing July’13.

### AWMR - Malcomson St 450mm WM Replacement

<table>
<thead>
<tr>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>90%</td>
<td><strong>•</strong></td>
<td><strong>•</strong></td>
</tr>
</tbody>
</table>

The new main has been laid, tested and connected to the existing 450 main at Glenpark St and at Evans Ave. All relocations have been completed in Palmer St and Evans Ave. As constructed drawings still to be finalised. Final claims still to be received.

### Cemetery Rd - 450 Trunk Main (Phase 1 - Nebo Rd/Shakespeare St Intersection)

<table>
<thead>
<tr>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning/Design</td>
<td>80%</td>
<td><strong>•</strong></td>
<td><strong>•</strong></td>
</tr>
</tbody>
</table>

Both phase 1 & 2 drawings expected to be completed by end of April. Design was all that was to be completed this FY. Phase 1 construction expected to start early next FY.

### Program Project

<table>
<thead>
<tr>
<th>ID</th>
<th>WWS - Laboratory Expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Status</strong></td>
<td><strong>% Complete</strong></td>
</tr>
<tr>
<td>Planning/Design</td>
<td>40%</td>
</tr>
</tbody>
</table>

Concept design for the proposed new lab, preliminary order of cost and comparison of construction options completed. Business Case to support project being prepared.
<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>WRS - Mt Pleasant Reservoir</td>
<td>Tender-Procurement</td>
<td>50%</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

Scope of work to address leak identified and Tender issued in March. Reservoir requires draining for sealing works. Tenders close 16 April 2013, with construction intended to commence in dry season late 12/13

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Digitisation of Telemetry</td>
<td>Construction</td>
<td>25%</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

Contract for replacement of obsolete RTU's to 10 water pump station sites awarded in Nov. Contractor has completed procurement and design with installation of new RTU panels to commence mid April.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Marian WTP</td>
<td>Tender-Procurement</td>
<td>50%</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

4 Tenderers shortlisted from evaluation of Expressions of Interest received for Design and Construct of Water Treatment Plant. Preparation of Tender documents in progress. Tender for river extraction structure and clearwater pipeline to ground level reservoir site issued, submissions due end of April. Negotiation for easement for clear water pipeline finalised.

### Mirani Network Augmentation

<table>
<thead>
<tr>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete</td>
<td>95%</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

Comments

Program ID

The contract works are in Defects Liability Period. "As Con" plans are in advanced stages of completion.

### New Mirani Booster Pump Station

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Bruce Highway (Stockroute Rd Intersection)</td>
<td>Construction</td>
<td>40%</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

Installation of 1200 enveloper for 900 poly installed. 900 Poly pipe installation will commence in approximately June/July.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Mirani WWRF - Interim Upgrade Augmentation</td>
<td>Handed over to MRC Operations</td>
<td>95%</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

The majority of minor defects and additional changes requested by MRC Operations now complete. Process proving completed and TEP finalisation report submitted to EHP and approved. Plant is now operating under original Environmental Authority License conditions. Final "as con" plans awaited.
### Mt Oscar Reservoir Access

<table>
<thead>
<tr>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>95%</td>
<td></td>
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</tbody>
</table>

**Comments**
Works complete, minor defects identified requiring modification to lockable access hatch. "As Con" plans to be finalised.

### Mt Oscar Reservoir Ladders

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>WPS - New Booster Eulbertie Av Development</td>
<td>Construction</td>
<td>20%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

As per 60321-Blacks Beach Booster Pump Station above

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Sewer Relining</td>
<td>Construction</td>
<td>0%</td>
<td></td>
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</tbody>
</table>

12/13 Works Package due to commence Mid April depending on weather

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>SPS - Wattle St PS Upgrade</td>
<td>Planning/Design</td>
<td>15%</td>
<td></td>
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</tr>
</tbody>
</table>

GHD engaged to design the new RM from Wattle St SPS, survey and service location works under way, construction proposed in FY2013/14.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>SRP - Marian Area - Asset Relocation</td>
<td>Planning/Design</td>
<td>20%</td>
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</tbody>
</table>

Planning scope definition in progress.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>ASRM - Malcomson</td>
<td>Planning/Design</td>
<td>20%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Roads driven renewal project - SRM design by Eng Services delayed - resources allocated to higher priority.
### Water and Waste Services Monthly Review > March 2013

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>ASRM - Malcomson/Greenfields Intersection Upgrade</td>
<td>Planning/Design</td>
<td>20%</td>
<td><img src="#" alt="Green" /></td>
<td><img src="#" alt="Yellow" /></td>
</tr>
</tbody>
</table>

Roads driven renewal project - SRM design by Eng Services delayed with design drawings expected for review in April-May 2013. Construction scheduled for late 2013. To be constructed in conjunction with 60059.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>SPS - Symons Farm PS - Refurbishment</td>
<td>Planning/Design</td>
<td>5%</td>
<td><img src="#" alt="Red" /></td>
<td><img src="#" alt="Green" /></td>
</tr>
</tbody>
</table>

Planning investigation / scope definition in progress.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>CSRM - Connors Road Temples Lane Sewer Main Upsize</td>
<td>Planning/Design</td>
<td>20%</td>
<td><img src="#" alt="Green" /></td>
<td><img src="#" alt="Yellow" /></td>
</tr>
</tbody>
</table>

Planning investigation and scope definition in progress. Investigation and design (if required) of sewer pipework associated with Temples Lane SPS and Connors Road SPS upgrades. These projects closely linked and design being considered holistically for these components.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>SPS - Connors Road SPS Augmentation</td>
<td>Planning/Design</td>
<td>10%</td>
<td><img src="#" alt="Red" /></td>
<td><img src="#" alt="Green" /></td>
</tr>
</tbody>
</table>

Planning investigation and scope definition in progress. The future plans and interreactions between all the pump stations and developments needs more investigation by planning.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>STP - Mirani Sewage Treatment Stage 1</td>
<td>Planning/Design</td>
<td>40%</td>
<td><img src="#" alt="Green" /></td>
<td><img src="#" alt="Yellow" /></td>
</tr>
</tbody>
</table>

Planning investigation and treatment options study in progress.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>SRM (Millenium Dr to Place Ave) Sarina</td>
<td>Design</td>
<td>100%</td>
<td><img src="#" alt="Green" /></td>
<td><img src="#" alt="Yellow" /></td>
</tr>
</tbody>
</table>

Design of new sewer rising main from Pacific Parks Estate to SRM in Place Ave finalised, tender in progress.
<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>SPS - Hicks Rd PS Upgrade</td>
<td>Planning/Design</td>
<td>10%</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ID</td>
<td>SPS Keeleys Rd No.1 Pump and Switchboard Replacement</td>
<td>Pump and switchboard procurement and installation</td>
<td>70%</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ID</td>
<td>SPS - Temples Lane</td>
<td>Planning/Design</td>
<td>5%</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ID</td>
<td>Sarina Water Recycling Facility (SWRF)</td>
<td>Design and Construction</td>
<td>16%</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ID</td>
<td>SPS No.3 Brewers Rd Sarina-SRM</td>
<td>Construction</td>
<td>0%</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ID</td>
<td>SPS - Anzac Ave, Marian</td>
<td>Land Purchase</td>
<td>100%</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ID</td>
<td>SPS Patch St Sarina Pump Replacement</td>
<td>Construction</td>
<td>50%</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ID</td>
<td>Sarina Rising Main &amp; Pump Station</td>
<td>Construction</td>
<td>15%</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

GHD engaged to design the upgrade works, survey and service location works under way, Design this FY, with construction in 2013/14.

Installation of first pump and switchboard installation complete. Problems with existing discharge fittings identified. Roebuck engaged to rectify prior to Specialist pump contractor returning to install second pump.

Planning investigation and scope definition in progress. Investigation and design (if required) of sewer pipework associated with Temples Lane SPS and Connors Road SPS upgrades. These projects closely linked and design being considered holistically for these components.

Site works have been delayed with bulk earthworks having lost approximately 35 days since Site work commenced in early January. Design and procurement are well advanced with the 80% Design Report Workshop recently being carried out. Contracts for the supply of major items of equipment are expected to be let during April including drum screens, membranes and diffusers, buildings and precast panels.

Contract awarded to Lemura Construction. Pre-start meeting to be held in Jan 2013. Physical works expected to commence from Mid-May (weather permitting).

Land resumption settled and land for pump station purchased.

pump replacement in progress

Work on pipe line being delayed by wet weather, thrust boring and directional drilling works completed.
6.1. Drinking Water Compliance

Safe Water supplies are provided in accordance with the requirements of the Water Supply Safety and Reliability Act and are measured against the Australian Drinking Water Quality Guidelines. Drinking Water samples are taken at the outlet of Water Treatment Plants and within the reticulation network. A summary of the performance is detailed below.

**Health Parameter Test Results**

![Health Parameter Test Results](chart.png)

- **Drinking Water Test Compliant**: Green
- **Non Compliant Health Parameter Tests**: Red
- **% Compliance**: Yellow
- **Target**: Black

Contract for replacement of obsolete RTU's to 78 sewer pump station sites awarded in Nov. Contractor has completed procurement and design with installation of new RTU panels to commence mid April. Rectification of Paget ClearSCADA faults and addition of features to assist with network management added ongoing.

<table>
<thead>
<tr>
<th>Program</th>
<th>Project</th>
<th>Status</th>
<th>% Complete</th>
<th>Budget</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>Digitisation of MW Telemetry</td>
<td>Installation</td>
<td>50%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Construction awarded to Dormway and pre-start meeting conducted. Contractor has commenced procurement of long-lead items and will commence on-site when all materials are available, which are expected early May.
6.2. Wastewater Compliance

The discharges from wastewater treatment facilities are regulated by Development Approvals issued by the Department of Environment and Resource Management. The licence requirements differ based on the time the Development Approval was issued and the receiving environment associated with any discharges.

![Aesthetic Parameter Test Results]

- Drinking Water Test Compliant
- Non-Complaint Aesthetic Parameter Tests

![Samples Tested vs. Non Compliant tests]

- Samples Tested
- Non-Compliant tests
6.3. Backflow Testing

Backflow devices are installed on water services were there is a risk that water could return from a private property back into the Water Reticulation network. The requirement for backflow devices is regulated in accordance with the Standard Plumbing and Drainage Regulation.

New devices registered has risen. There are 15 at the new school at Rural View and a number of new houses with underground water tanks.

Overdue for Testing numbers fell slightly in March. Commercial devices overdue rose slightly to 153.